

65T240 40296260

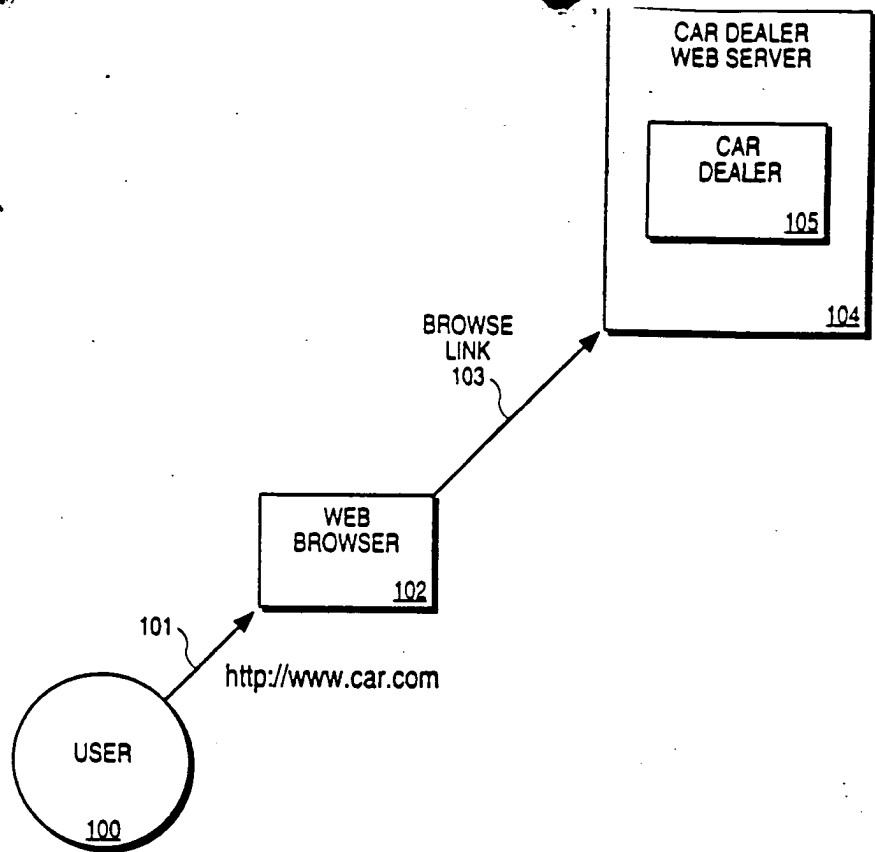


FIG. 1A (PRIOR ART)

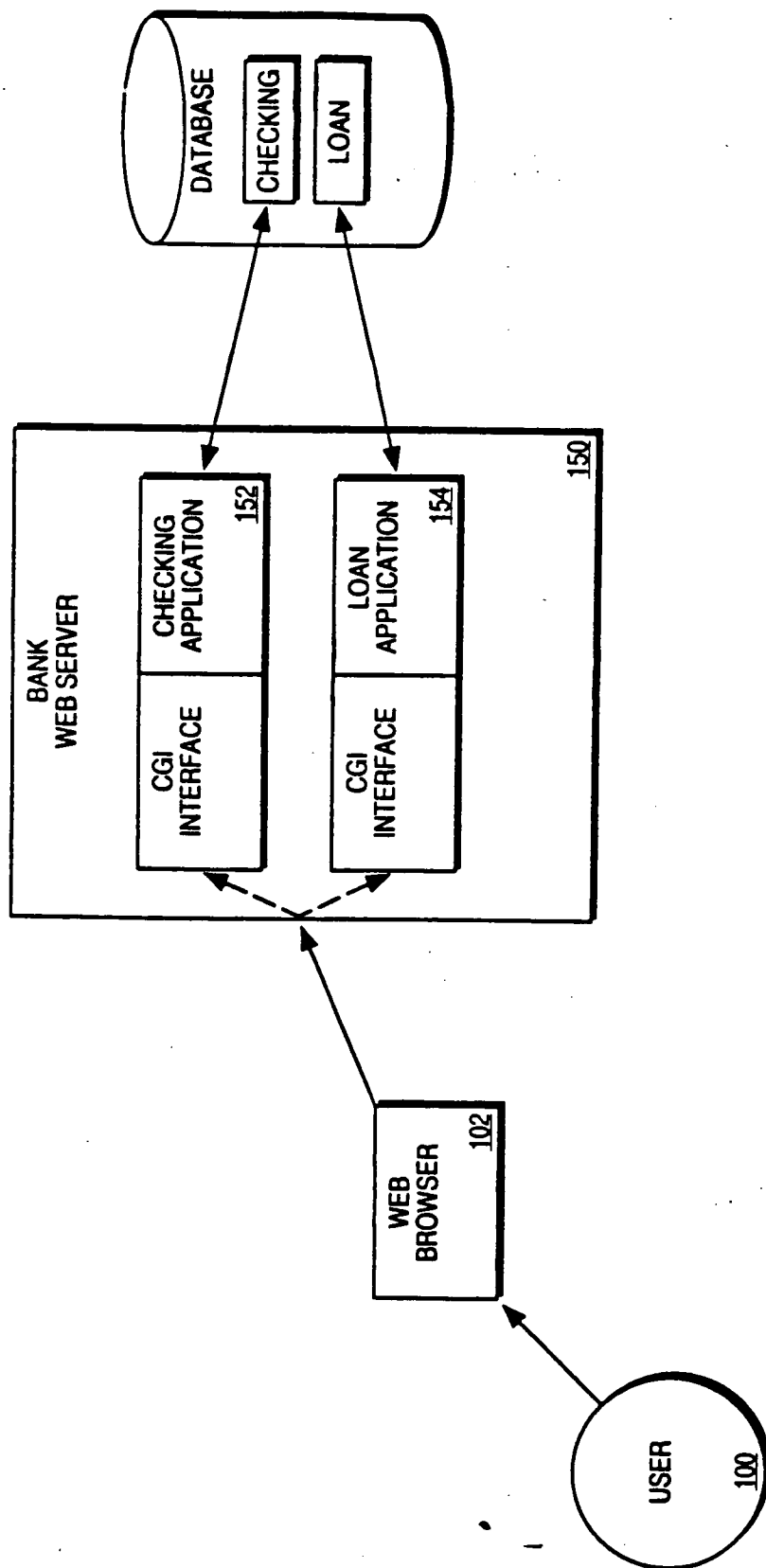


FIG. 1B (PRIOR ART)

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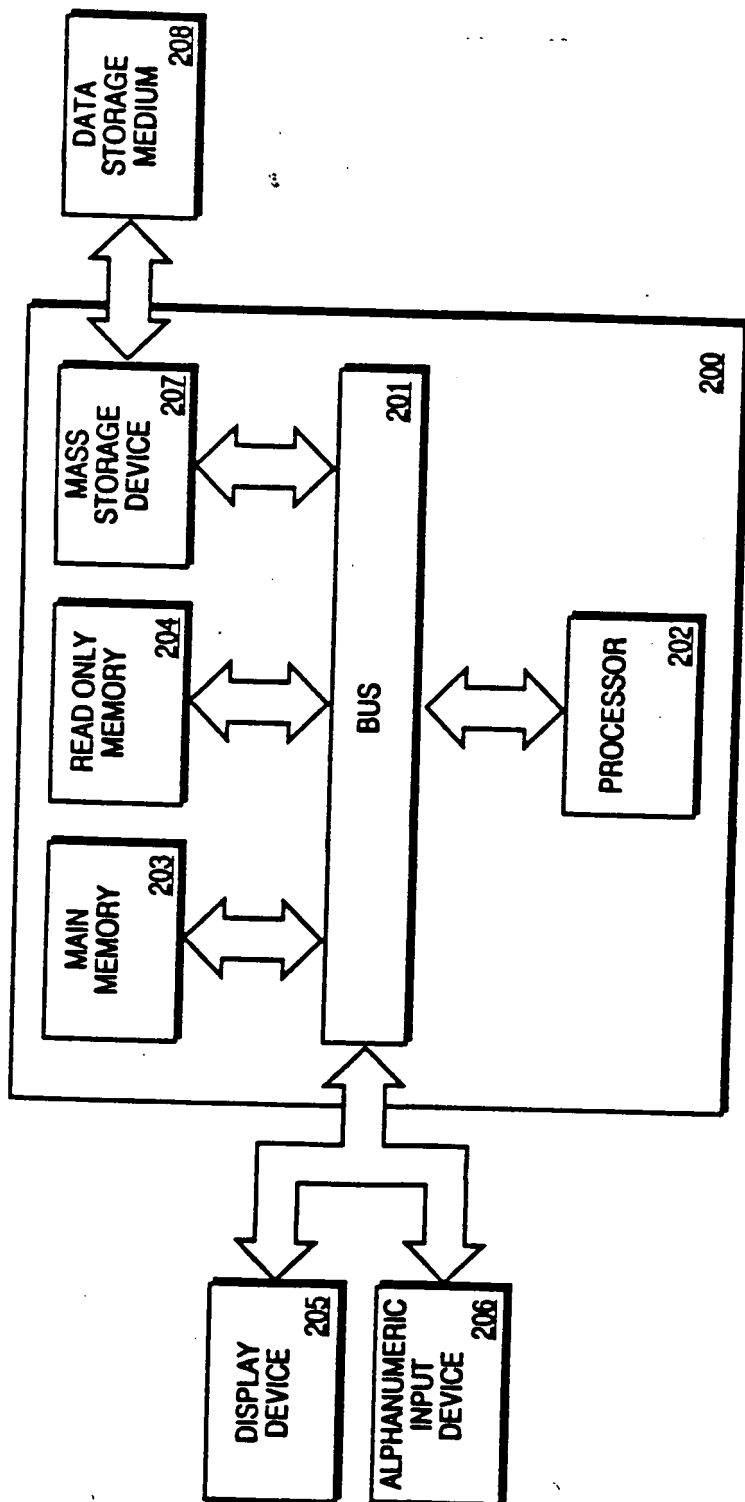


FIG. 2

OSI MODEL
300

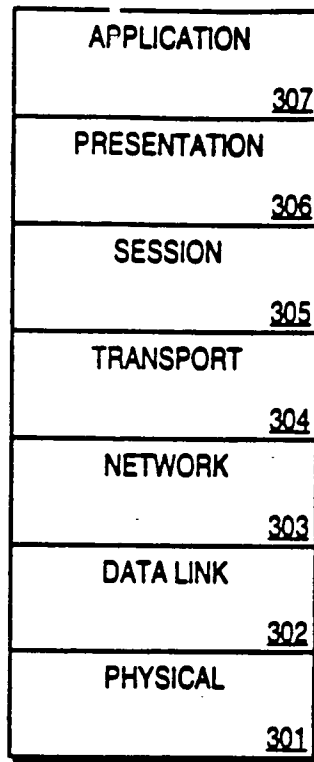


FIG. 3

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SERVICE CHANNELS

BACK OFFICE

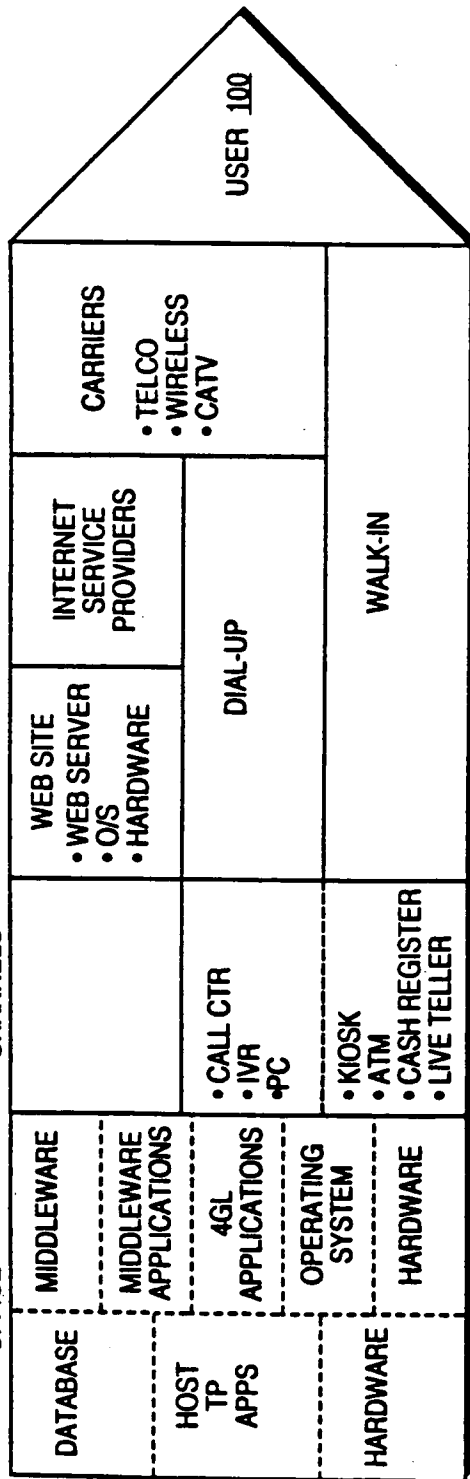


FIG. 4A

SERVICE CHANNELS

BACK OFFICE

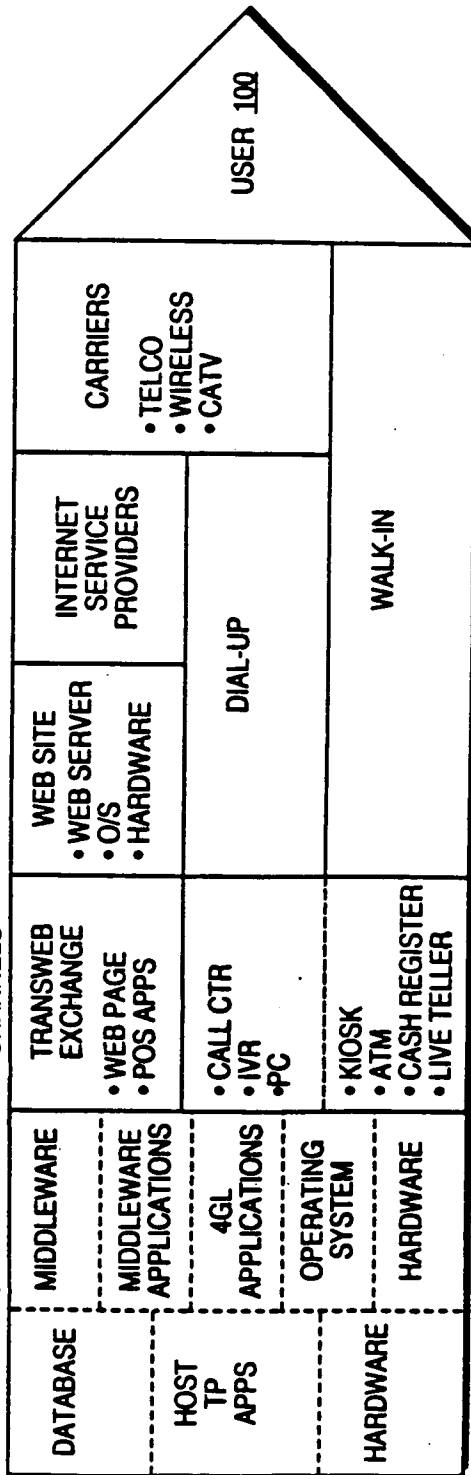


FIG. 4B

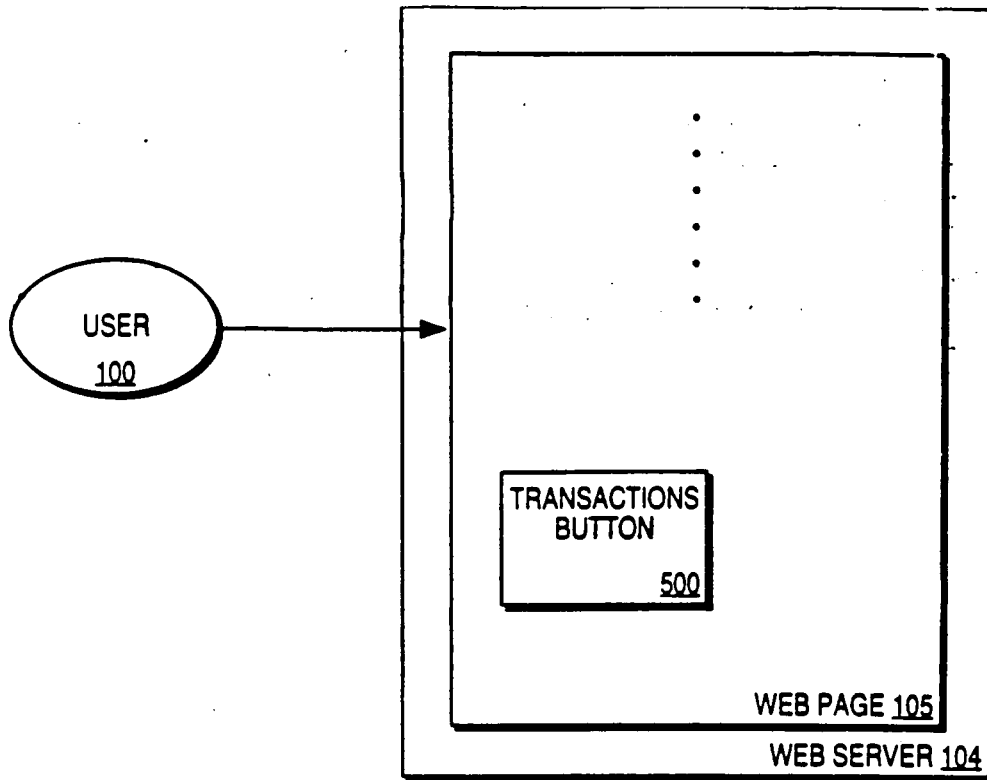


FIG. 5A

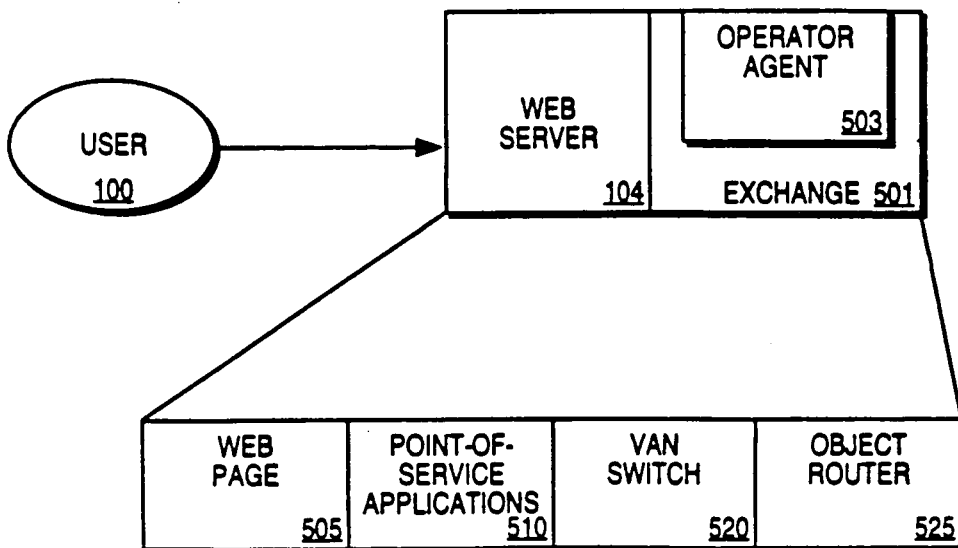


FIG. 5B

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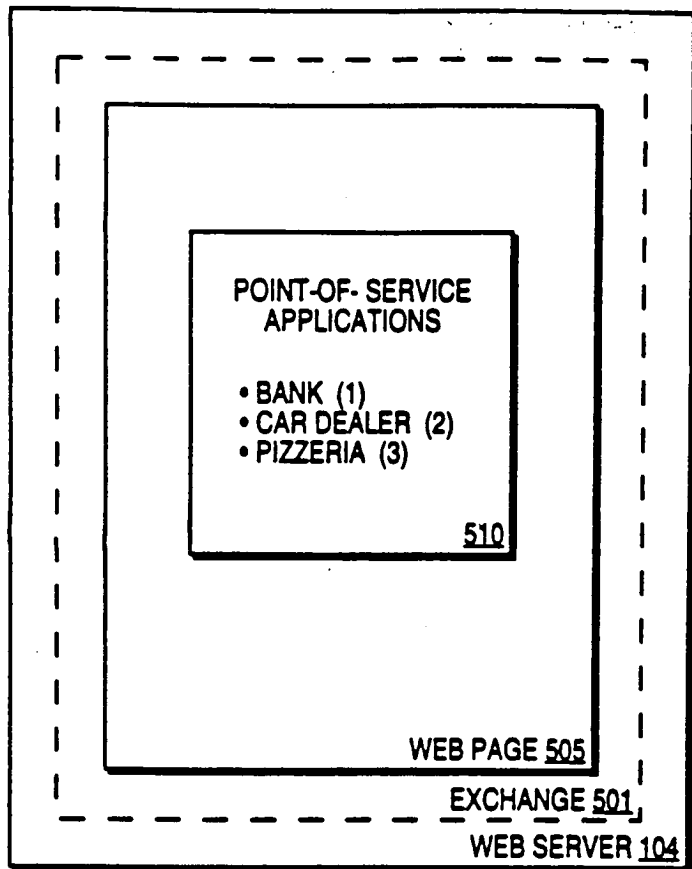


FIG. 5C

667240 20295250

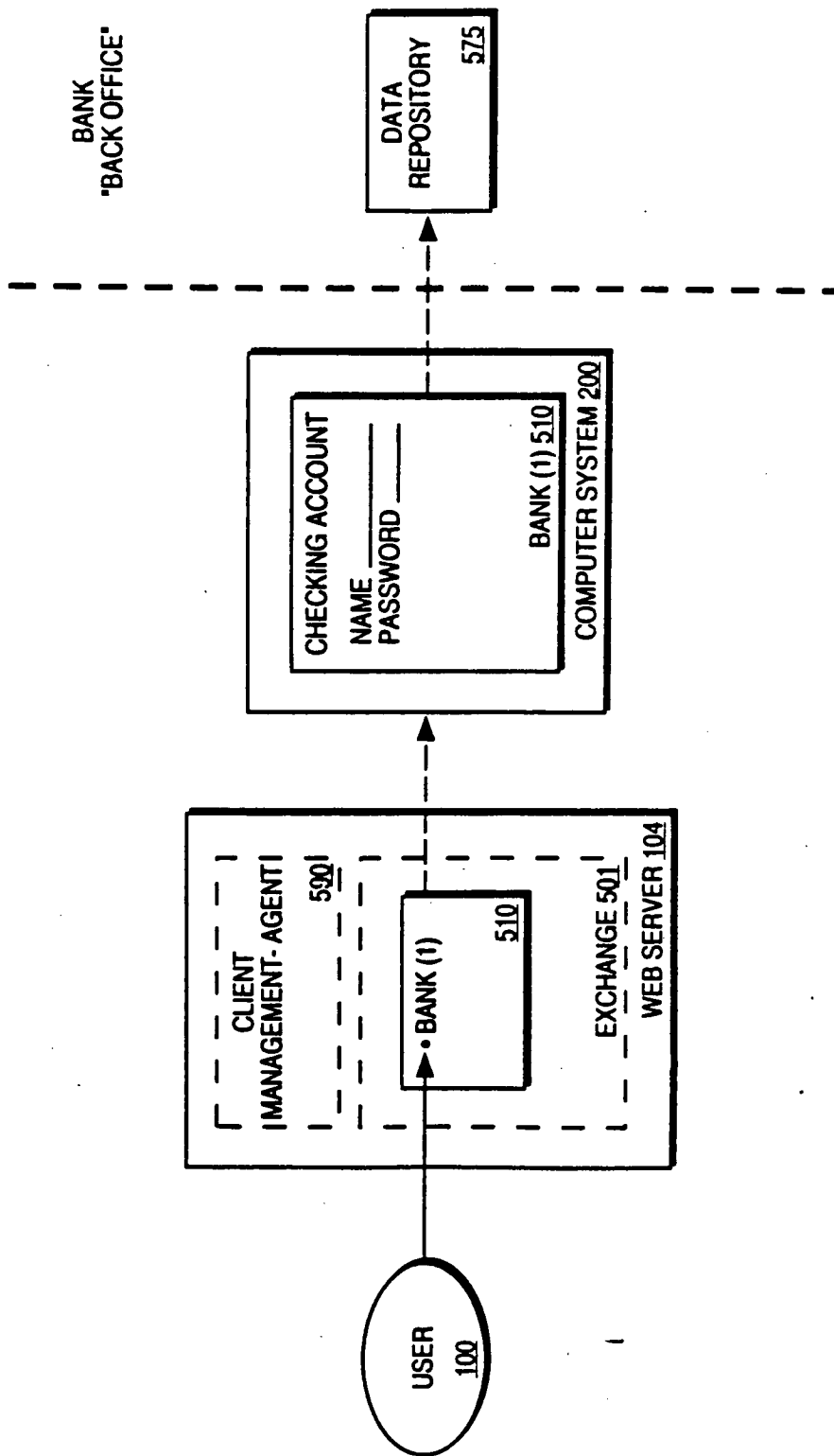
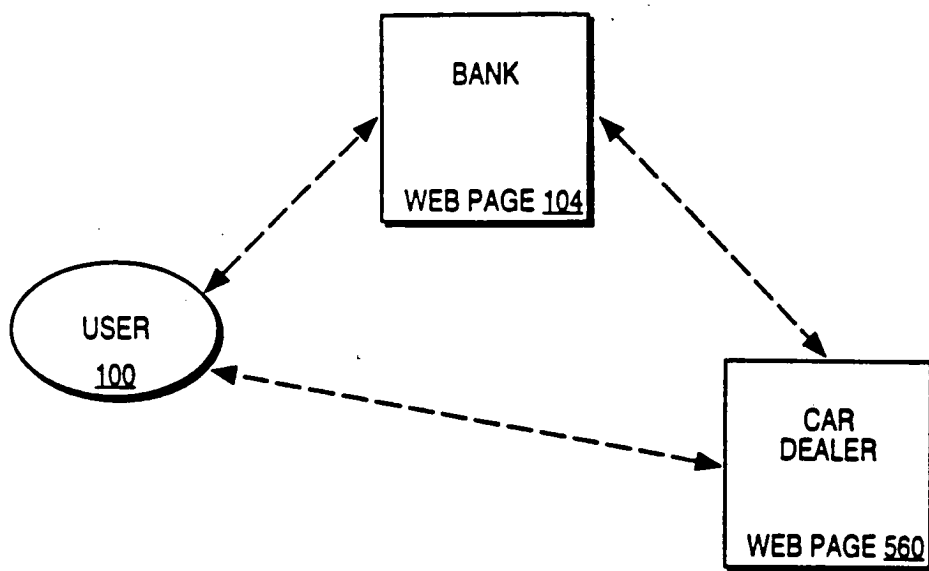


FIG. 5D



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FIG. 5E

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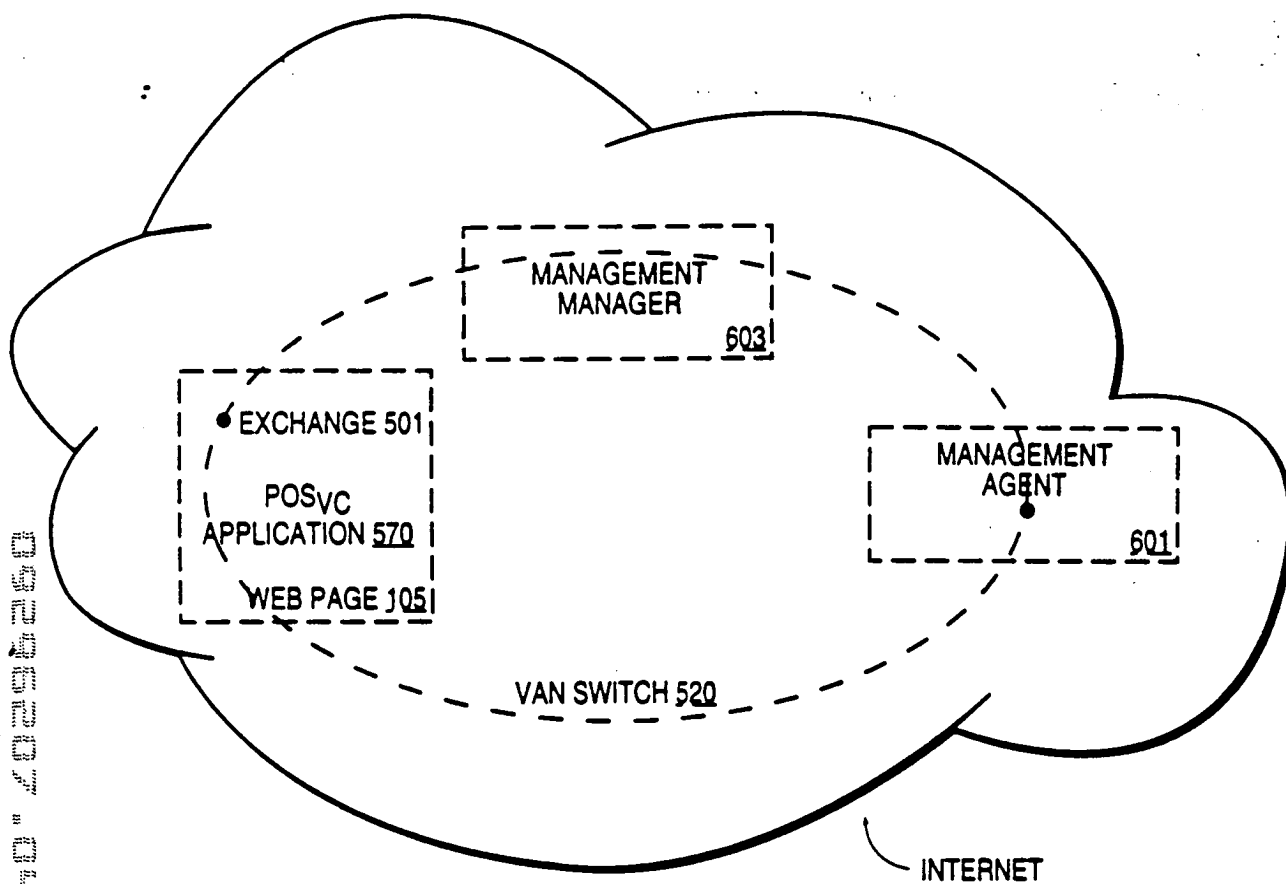


FIG. 6A

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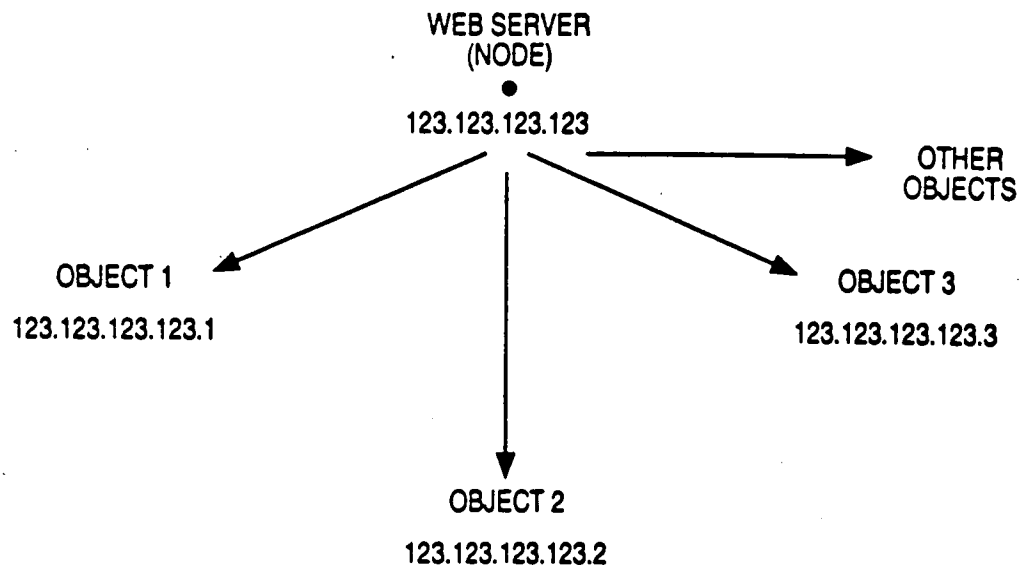
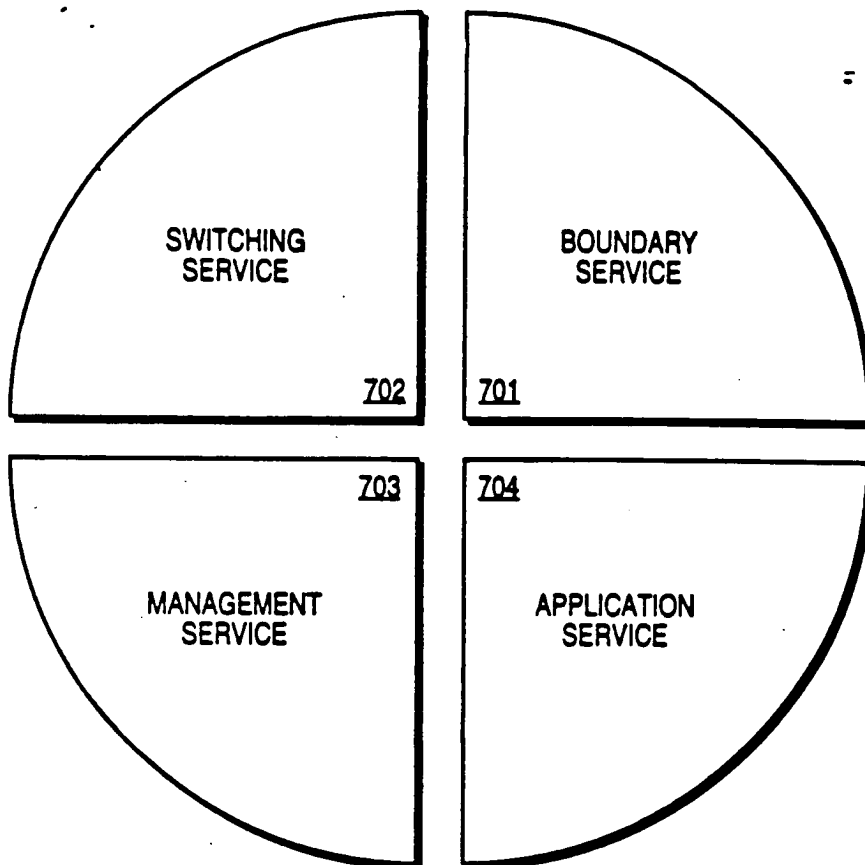


FIG. 6B

VAN SWITCH 520



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FIG. 7

BEGIN

USER CONNECTS TO WEB SERVER
RUNNING AN EXCHANGE

802

USER ISSUES REQUEST FOR
TRANSACTIONAL APPLICATION

804

WEB SERVER HANDS OFF
REQUEST TO EXCHANGE

806

EXCHANGE ACTIVATES GRAPHICAL USER
INTERFACE TO PRESENT USER WITH LAST
OF POS_{VC} APPLICATION OPTIONS

808

USER MAKES REQUEST FROM
POS_{VC} APPLICATION LIST

810

SWITCHING COMPONENT IN EXCHANGE
SWITCHES USER TO
SELECTED POS_{VC} APPLICATION

812

OBJECT ROUTING COMPONENT
EXECUTES USER'S REQUEST

814

DATA RETRIEVED FROM DATA
REPOSITORY VIA TMP

816

USER CONTINUES TRANSACTION
(OPTIONAL) OR ENDS TRANSACTION

818

END

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FIG. 8

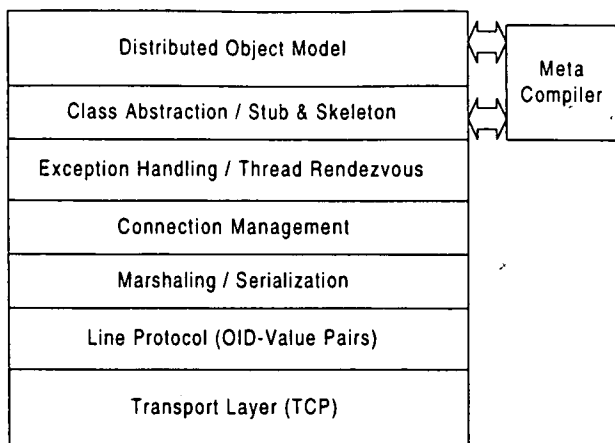


Figure 9: Software Layers of the Object Router

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ESTD 7090550

09256207.042199

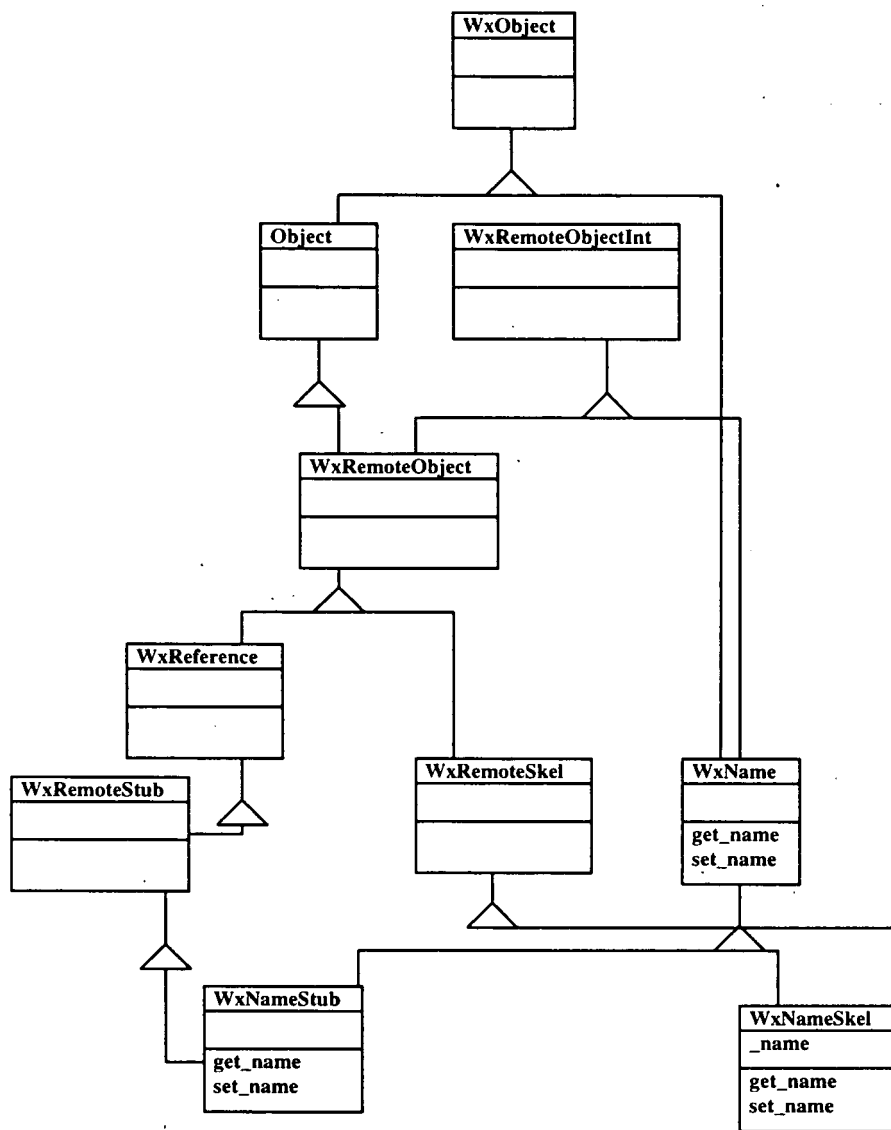


Figure 10: Data Model Integration

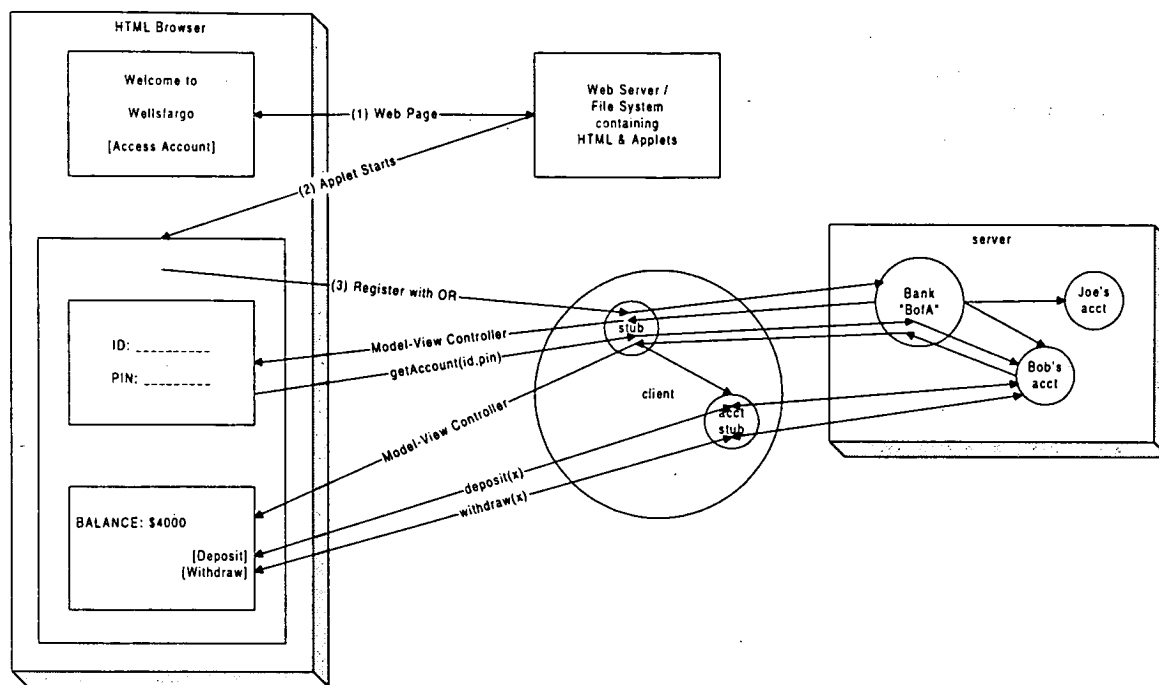


Figure 11: Bank Scenario

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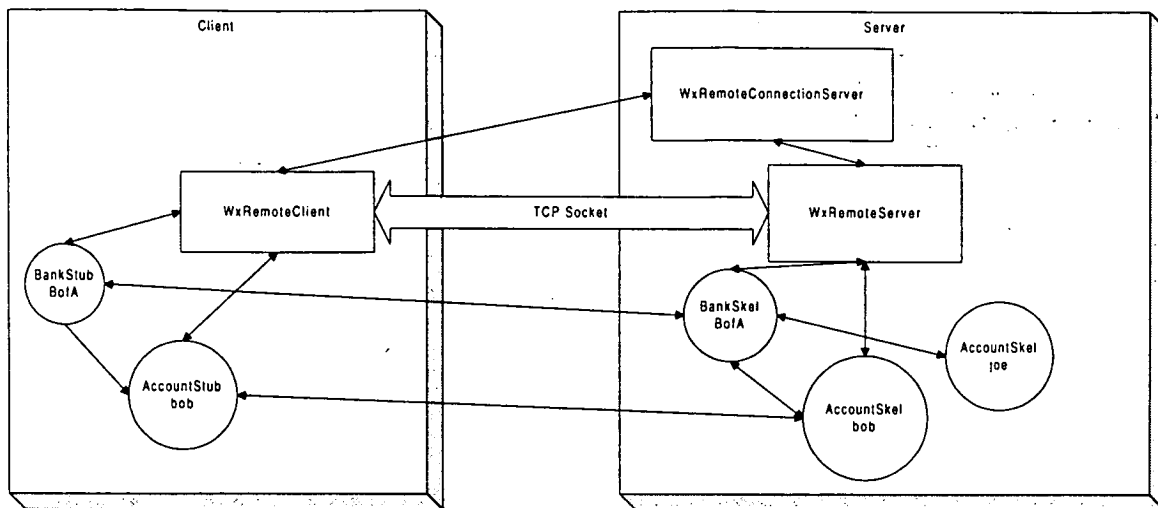


Figure 12: Bank Client-Server

00206207 "042155
057240 2026260

[illegible]

Figure 13: Class Diagram

[illegible]

Figure 14: Object Router Timing Diagram

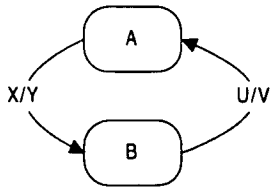


Figure 15: A Finite State Machine

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55740 709900

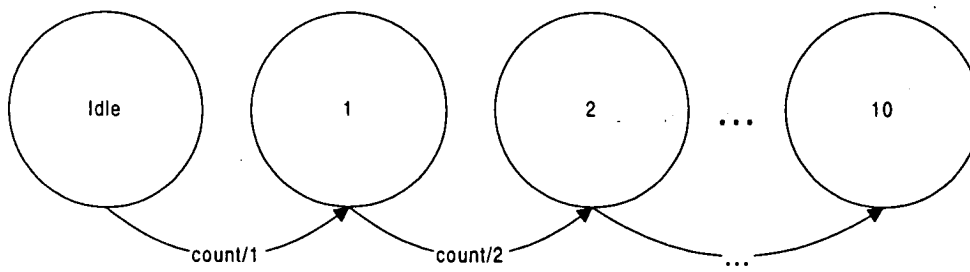


Figure 16: Counter implemented with FSM

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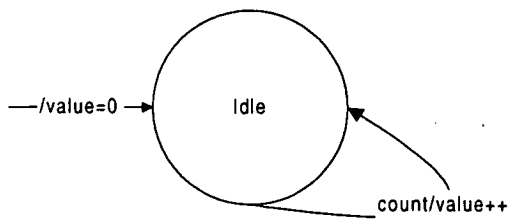


Figure 17: Counter implemented with DOLSIB

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557240 2029620

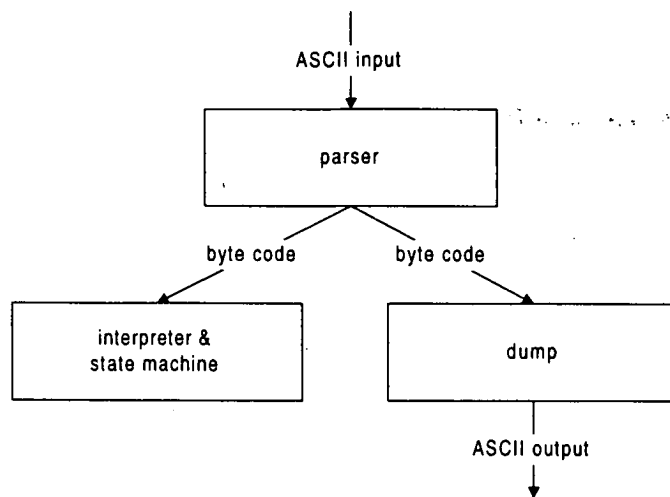


Figure 18: State Machine files and programs

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```

beginclass CoreBusinessObject
begindata
enddata

beginmethod
include hskel
private:
# used by the Finite State Machine
virtual void fsm_init() { }
void fsm_action_timeout(const char* timeval);
void fsm_action_throw(const char* message);
void fsm_action_return(const char* result);
void fsm_action_send(const char* value);
public:
endinclude

# to configure the FSM
method void fsm_load_dolsib {String filename}
# to trigger an event in the FSM
method void fsm_event {String name} {String value}
method String fsm_result
# to set/get variables from FSM
method void fsm_set_string {String name} {String value}
method const String fsm_get_string {String name}
method void fsm_set_integer {String name} {int value}
method const int fsm_get_integer {String name}
endmethod

endclass

```

Figure 19: CoreBusinessObject Object Router Description

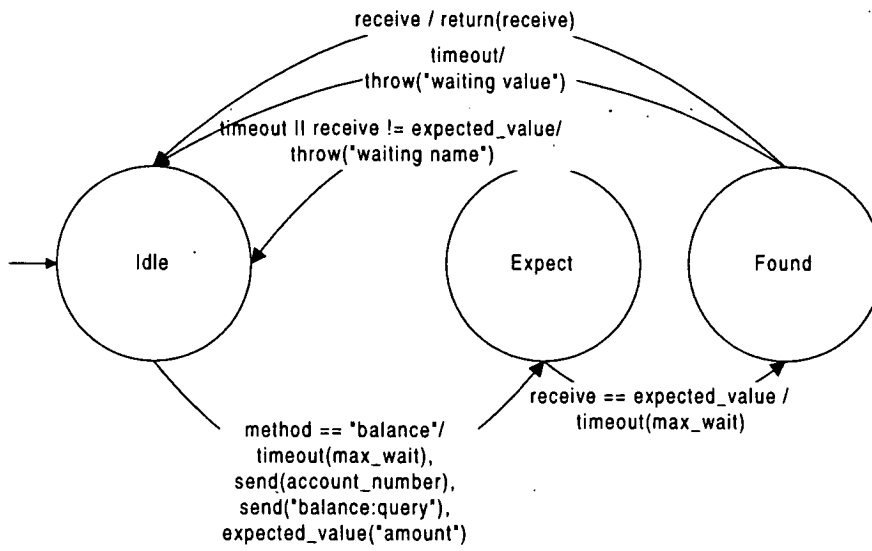


Figure20: Bank B1 DOLSIB FSM Diagram for Balance

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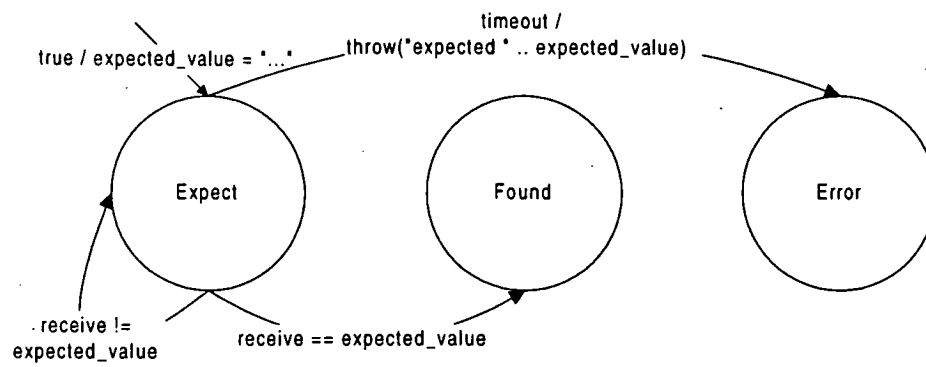


Figure21: Expect, Found and Error states

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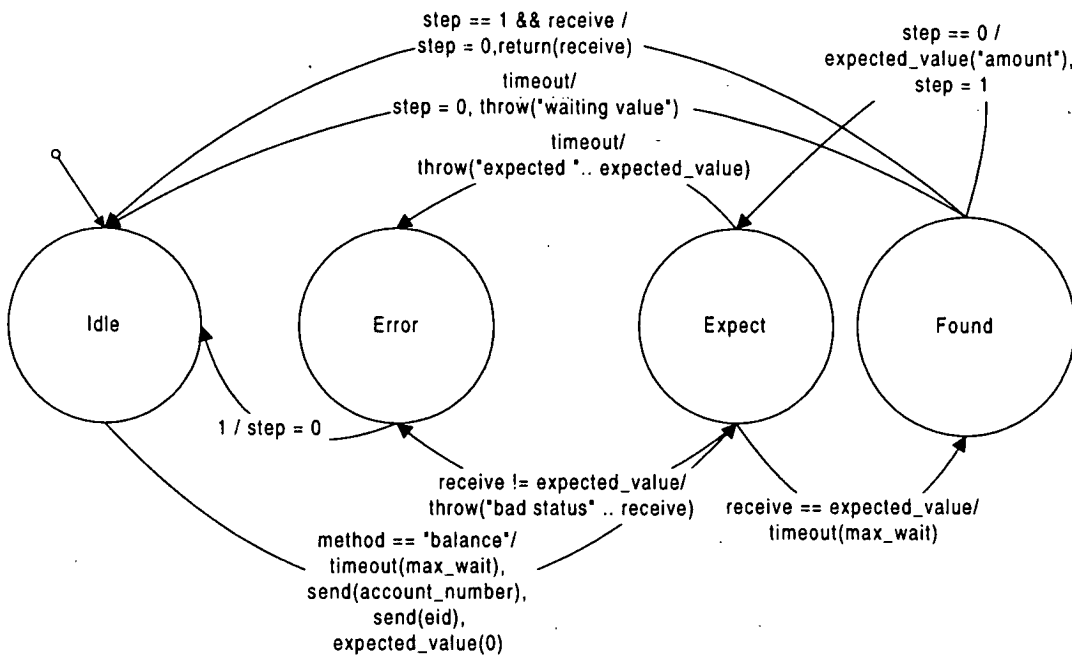


Figure 22: Bank B2 DOLSIB FSM Diagram for Balance

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